

# Built for the PRO, by the PRO<sup>™</sup>

SENSEI® RX featuring Smart-Circ<sup>™</sup> Intelligent Recirculation<sup>™</sup>, makes it easier than ever to sell, install, and service the best-performing condensing tankless water heater Rinnai has ever made. Now you can provide the latest in lifestyle comfort, smart-design, and built-in technology by installing the premium, unlimited hot water experience that only **SENSEI® RX** can offer.



## SMART<sup>®</sup>SENSE<sup>®</sup>

Rinnai's proprietary Adaptive Gas Valve Technology adjusts to either Natural Gas or Liquid Propane Gas for optimal combustion - no conversion kit required.





### **VERSA**•VENT

Outdoor Vent Cap easily adapts to any SENSEI® RX Series model for outdoor installations providing the ultimate in SKU flexibility (sold separately).





### SMART CONNECT

Allows you to connect your smart phone or tablet to the SENSEI® RX Series via Bluetooth®. Use the Rinnai Central™ App for guick, simplified tankless water heater set-up and registration, significantly reducing your install time.





# **QUICK<sup>V</sup>FLUSH**<sup>\*\*</sup>

Provides a more efficient flushing procedure to make periodic preventive maintenance a simple task to perform.



### **Superior Performance Requires Superior Components**

Rinnai designs and manufactures most of the key components that go into the **SENSEI® RX**, allowing for consistent control of guality, backed by the industry's best warranty. That's why more consumers and PROs choose Rinnai over any tankless brand.

#### **NEW** Improved

Turbo Fan<sup>™</sup> Enables longer vent runs and flexible vent options Industry leading 75 feet with 2"/4" concentric and 2" PVC/CPVC/PP. Up to 150 feet with 3"/5" concentric and 3" PVC/ CPVC/PP.

#### **NEW** Enhanced **Primary and** Secondary Heat

Exchangers More efficient heat transfer and improved robust design with minimal joints. The tube design is 444 Stainless Steel that provides added durability and heat resistance.

Sets the standard for high efficiency tankless (0.98 or 0.97 UEF on all models).

#### **NEW** 4-Speed **DC Recirculation** Pump Quieter operation in a compact size with higher head pressure for improved performance.

NEW Retro-fit Internal Pump Kit Adds Rinnai's advanced recirculation capability to non-pump models.

Rinna INDUSTRY

NEW Weighs 58 lbs. 10 lbs. lighter than previous models.



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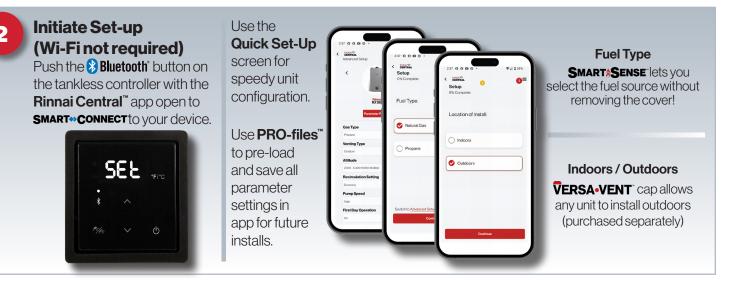


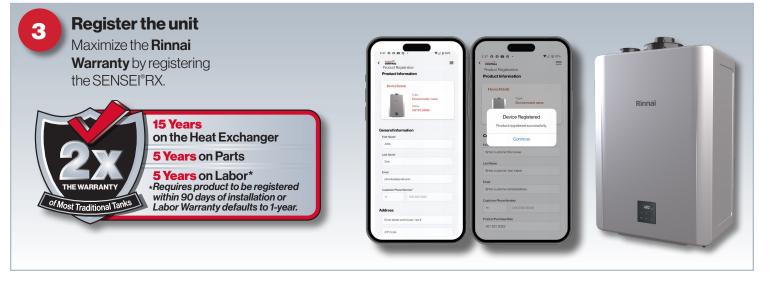


#### **Set-up and Registration has Never Been More Convenient**





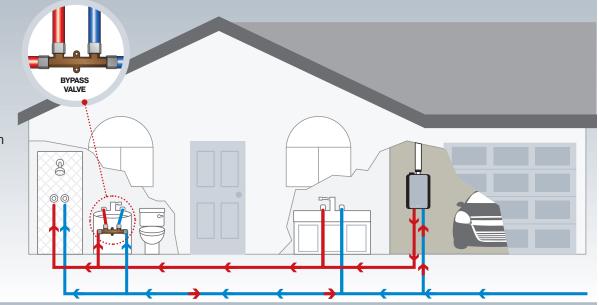






### **Turn Any Plumbing System into a Recirc System**

**Regardless** of whether an existing plumbing system has a dedicated return line. faster hot water can be enjoyed using a Thermal Bypass Valve accessory when installing tankless models featuring a built-in pump with recirculation technology.



### Flow Rate vs DELTA T Table and Chart

Model	RXP199	RXP160	RX199	RX180	RX160	RX130	
Max. BTUH	199,000	160,000	199,000	180,000	160,000	130,000	
Recovery Efficiency*	97%	97%	97%	97%	97%	97%	
Temperature Rise (°F)	GPM	GPM	GPM	GPM	GPM	GPM	
105	3.7	3.0	3.7	3.3	3.0	2.4	
100	3.9	3.1	3.9	3.5	3.1	2.5	
95	4.1	3.3	4.1	3.7	3.3	2.7	
90	4.3	3.5	4.3	3.9	3.5	2.8	
85	4.6	3.7	4.6	4.1	3.7	3.0	
80	4.8	3.9	4.8	4.4	3.9	3.2	
75	5.2	4.2	5.2	4.7	4.2	3.4	
70	5.5	4.5	5.5	5.0	4.5	3.6	
67	5.8	4.7	5.8	5.2	4.7	3.8	
65	6.0	4.8	6.0	5.4	4.8	3.9	/
60	6.5	5.2	6.5	5.8	5.2	4.2	
55	7.0	5.7	7.0	6.4	5.7	4.6	
50	7.8	6.2	7.8	7.0	6.2	5.1	_
45	8.6	6.9	8.6	7.8	6.9	5.6	_
40	9.7	7.8	9.7	8.8	7.8	6.3	
35	11.1	8.9	11.1	10.0	8.9	7.1	
30	11.1	9.0	11.1	10.0	9.0	7.1	
25	11.1	9.0	11.1	10.0	9.0	7.1	ž
20	11.1	9.0	11.1	10.0	9.0	7.1	
15	11.1	9.0	11.1	10.0	9.0	7.1	
10	11.1	9.0	11.1	10.0	9.0	7.1	

\*Recovery Efficiency ratings per AHRI Directory.

#### **Water Flow Curve** Delta T - Temperature Rise (°C) 50 60 20 30 40 12.0 45.0 RX 199i an 40.0 35.0 30.0 250 20.0 10.0 5.0 0.0 0.0 25 50° 75° 100° 125° Delta T - Temperature Rise (°F) Note: Maximum flow rates may vary based on set temperature, Delta T and altitude



Idlikies	5 V5 Ialik
Rinnai	4
High Hot Water Usage ery year American home owners spend \$400 to \$600, n average, to heat water for bathing, washing & cleaning.*	Average Household Consumes 64 Gallons of Hot Water Per Day (23,000 gallons per year)
WATER HEATERS O	Years TAANK WATER HEATERS Traditional hot water storage tank system
within 90 days of installation or Labor Warranty defaults to 1-year. EFFIC ankless water heaters are <b>much more energy efficient;</b> b hot water is stored. 1-34% more efficient than tanks.*	Tank water heaters are <b>susc</b> and a continously heated tan day long, 24/7, for <b>less efficie</b>
	)ST •
inkless water heaters have <b>lower operational costs</b> Id <b>last much longer than tank water heaters</b> , which an offset installation costs.	Tank water heaters have a low <b>more expensive to operate</b> keep water heated 24/7.
• LIFE	SPAN •
ith periodic maintenance, tankless water heaters can st for 20+ years.*	Traditional tank water heaters lifespan of 10-15 years.*
• SIZE •	SPACE •

**Tankless vs Tank** 

Tankless water heaters are about the size of a small suitcase and are wall mounted for significant for installation than tankless units potentially reducing net space savings. iving or storage space. • BOTTOM LINE • • Up to 34% more energy efficient\* Heats water even when not being used Compact space saving design Takes up valuable space Shorter lifespan Longer lifespa 40-60 gallon capacity

efficiency and lifespans of tankless vs. storage water heaters per the Department of Energy (energy.gov).

**Rinnai LMS Class** 

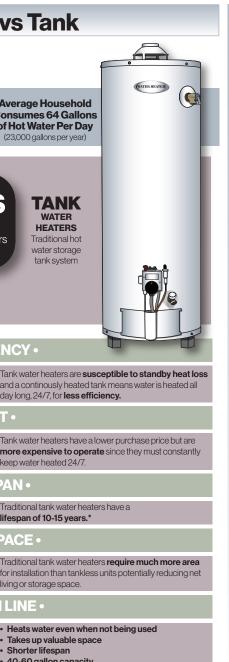
**Enrollment Guide** 

https://bit.ly/42lTiaQ

# **Rinnai Technical Training Department**

Rinnai offers many NO COST training options for PROs, either on-line, in the field or at Rinnai's Peachtree City, Georgia corporate office. The training levels range from an introduction to tankless technology to advanced live technical training where you gain hands-on experience in the installation and troubleshooting of Rinnai products. For more information, contact your local Rinnai representative or enroll today at the Rinnai Online Training Center.





**Training Help** Email: training@rinnai.u



# Be the PRO in the know

There are a lot of tankless myths out there being spread by people unfamiliar with the technology. Luckily, plenty of PROs know about these misconceptions and are here to tell the Tankless Truths.

# **Tankless TRUTHS**

To learn about all the Tankless Truths, click on the link below of scan the Tankless Truths QR Code.

https://www.rinnai.us/tanklesstruths

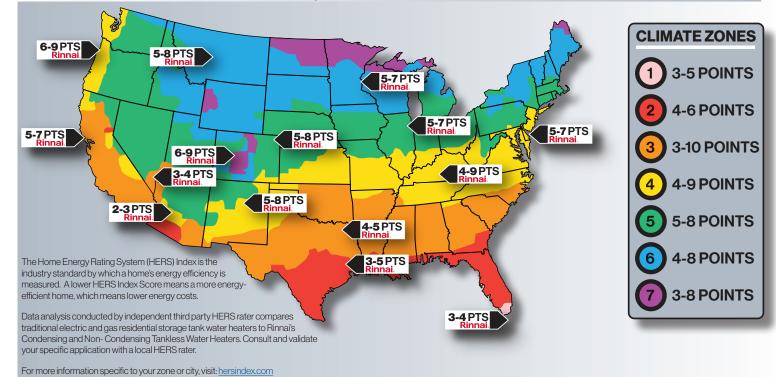




**Rinnai LMS Class Schedules** https://bit.ly/443HWcX



#### HERS Scores Improve With Rinnai Tankless Water Heaters



REDUCE	<b>Model Chart and Specifications</b> SENSEI®RX SERIES Condensing Tankless Water Heaters					
YOUR SKUs from 24 MODELS to 6!	Pond	Rest	Rinnal	Ronal	Rest	Root
MODEL	RXP199IN	RXP160IN	RX199IN	RX180IN	RX160IN	RX130IN
Built-in Pump	Ye	es		ľ	lo	,
Smart - Circ	Ye	25	Smart-C	irc capable with installati	on of pump or pump acce	essory kit
Product Dimensions W,H,D inches (mm)	18.5 X 30.1 X 11.4 (470 X 765 X 290)					
Product Weight (lbs / kg)	58 (26)	57 (26)	55 (25)	55 (25)	54 (24)	54 (24)
Installation Type	Indoor Units (Includes optional outdoor installations with use of the Rinnai outdoor vent cap accessory)					
UEF	0.98	0.97	0.98	0.98	0.97	0.97
Min./Max. Btu	15,000/199,000	15,000/160,000	15,000/199,000	15,000/180,000	15,000/160,000	15,000/130,000
Temperature Setting	Minimum: Normal Operation: 98°F (37°C) (Crossover Mode: 120°F (49°C)) Maximum: Default: 120°F (49°C) with Parameter Adjustment: 140°F (60°C)					
Minimum Activation Rate			0.13 GPM (	0.5 L/MIN)		
Flow Rate <sup>1</sup> (Min-Max)	0.13-11.1 GPM (0.5-42 L/MIN)	0.13-9.0 GPM (0.5-34 L/MIN)	0.13-11.1 GPM (0.5-42 L/MIN)	0.13-10.0 GPM (0.5-38 L/MIN)	0.13-9.0 GPM (0.5-34 L/MIN)	0.13-7.1 GPM (0.5-27 L/MIN)
Controller (Standard)	INTEGRATED					
Controllers (Optional)	MC-601; for scheduled recirculation use MC-195T-US or RWM200 Wireless Module					
Certifications	AHRI, CSA, ENERGY STAR®					
Warranty (Residential)**	Limited 15-year on heat exchanger, 5-year on parts, 1-year on labor. Register within 90 days and receive an additional 4 years of labor coverage for free (\$250 value).					
Mobile Home Certified			Ye	es		
Thermal Bypass Crossover Valve in Box	Yes No					
High Altitude Approved			UP TO 10,200	) FT. (3,109 M)		
Venting Options	Concentric/PVC/CPVC/PP Vent Cap (Outdoor Only)					
Ultra Low NOx	Yes					
Residential Rack Compatible		Yes RTBRACKA, RTBRACKS, RTBRACKEXT				
1/2" Gas Line Compatible†	Yes					
Wi-Fi Ready	Yes					

\*To achieve temperatures over 140° F (60° C), consult the Operation and Installation Manual. \*\*For complete information and details regarding Rinnai's warranty, visit rinnai.us. †For complete information on gas sizing for Rinnai Tankless Water Heaters, consult the Operation and Installation Manual.

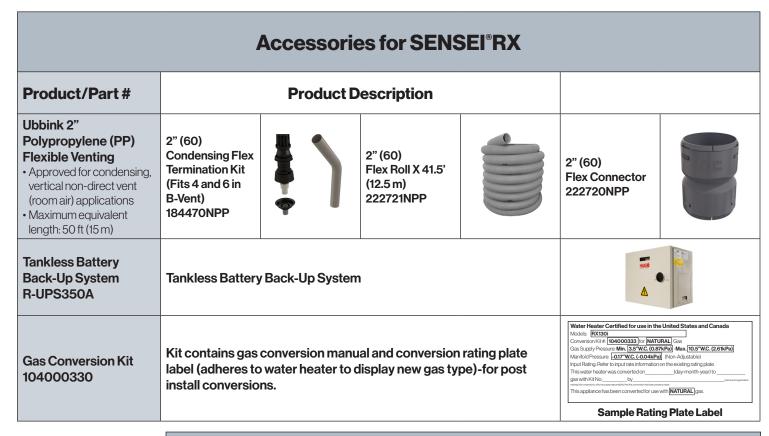
**Rinnai** Learn more at rinnai.us

#### Accessories for SENSEI®RX

Numerous optional accessories are available for purchase for your Rinnai Tankless Water Heater. Listed below are some commonly purchased accessories. For a complete list of accessories, visit <u>www.rinnai.us</u> For questions, or to purchase an accessory, contact your local Rinnai dealer/distributor or **Rinnai Customer Care** at **1-800-621-9419**.

Product/Part #	Product Description	
Isolation Valve Kit MIVK-T-LW	Isolation valves provide the ability to isolate the water heater from the structure's plumbing system and allow quick and easy access to flush the heat exchanger. Rinnai strongly recommends use of these valves for service and maintenance.	
Outdoor Vent Cap	Allows the water heater to be installed outdoors.	
BLE Recirculation Push Button RPB200	Mounted in a convenient location, i.e. near a kitchen or bathroom sink, the BLE push buttons works with the SENSEI®RXP tankless water heater or Wireless Module to activate the recirculation system by pushing the button.	Rinnai
Dedicated Return & Isolation Valve Kit 107000639	Valve kit including tee, drain valve, pressure relief valve, check valve & isolation valves (cold & hot) to simplify set-up of a dedicated recirculation line.	
Internal Add-on Recirculation Conversion Kit RX2RXPCK	Allows a non-pump RX model to be converted to a RXP internal pump model.	
Condensate Neutralizer 809000074	Neutralizes the condensate generated by the water heater.	
Wireless Module RWM200	Controls On-Demand recirculation, remotely adjust temperatures, and communicates with the service provider portal. The module and MC-195T-US controller are not compatible accessories and must not be installed together.	
Additional Controller MC-601	Additional controllers are available for user convenience.	4 · · · · · · · · · · · · · · · · · · ·
Additional Controller MC-195T-US	Additional controllers are available for user convenience.	

Accessories for SENSEI®RX				
Product/Part #	Product Description			
ScaleCutter 103000038	Prevents the formation of scale buildup in the water heater extending product life while improving performance.			
ScaleCutter Refill Cartridge 103000039	Refill cartridge for the ScaleCutter filter assembly.			
Drain Down Kit 104000059	Provides freeze protection by immediately draining the water heater upon loss of power.			
Leak Detection Kit RXLeakKit	Pipe cover drain pan and float switch for use with the Pipe Cover (Part #: PCD11-SHS)			
Room Air Screen 108000104 for 2" 108000105 for 3"	Recommended room air screen for use in room air applications only.			
EZConnect™ Cable REU-EZC-3	Electronically connects two water heaters and allows them to function as one hot water source.			
OPU Switch REU-OPU3	Normally Closed (NC) switch that connects to the tankless water heater PC Board. When used with a hydronic air handler, the switch gives priority to domestic hot water during high demand.			
RTBRACKA	Tankless Floor Standing Rack, standard height			
RTBRACKS	Tankless Floor Standing Rack, low profile			
RTBRACKEXT	Rack Extension Kit, add-on			
Recess Box RGBCTWHRX	Allows a water heater to be recessed into a wall. A vent adapter is provided with the recess box.			
Pipe Cover PCD11-SHS	Encloses the piping below the water heater for aesthetic purposes.			



#### **Tankless Water Heater Series Reference Guide**

UDLY ASSEMD	RE • SERIES NON-CONDENSING TECHNOLOGY		
SEOUDLY ASSEMBLING	RE	<b>REP</b> (with built-in pump)	
Z GRIAN, GEORGIA			
	REMODELS	REP MODELS	
UEF (Uniform Energy Factor)*	0.81-0.82	0.81-0.82	
Wi-Fi Capable	$\checkmark$	$\checkmark$	
Available in Natural Gas or Propane	✓	✓	
Indoor and Outdoor installation	$\checkmark$	✓	
Smart - Circ		✓	
Thermal Bypass Valve included			
Isolation Valves included		✓	
Smart Home Automation**	1	✓	

	SEI RX TECHNOLOGY
RX	<b>RXP</b> (with built-in pump)
RX MODELS	RXPMODELS
0.97 - 0.98	0.98
✓	1
1	1
✓	1
Smart-Circ capable with installation of pump or pump accessory kit	1
	1
✓	1

As based on the 2017 DOE new metric for communicating the energy efficiency of residential water heaters. Rinnai RWM200 Wireless module necessary (module sold separately). When used on models with Smart-Circ<sup>™</sup> for scheduled or on demand recirculation, the Wireless module overrides Smart-Circ<sup>™</sup> recirculation patterns. Amazon, Alexa, and all related logos are trademarks of Amazon.com, Inc. or its affiliates.





#### Venting Components for SENSEI®RX

2"/4" Condensing Concentric Vent System

2"/4" Condensing		
	Part Number	<b>Product De</b>
	229031	12", 2"/4" Cond
	229032	21", 2"/4" Cond
22	229033	2"/4" Condens
	224359	2"/4" Condens
	229318	10", 2"/4" Cond
0	229319	19.5", 2"/4" Cor
	229320	39", 2"/4" Conc
	185348NPP	2"/4" Condens
0	229208	2"/4" Condens
0	229233	2"/4" Condens
0	229252	2"/4" Condens
	227413	2"/4" Condens
R	224055	2"/4" Thimble (
(C)	169044	Pipe Clamp Un
0	169013	2"/4" Pipe Clan
0	224056	2"/4" Vent Sup
	710265	2"/4" Wall Plate
$\mathbf{O}$	710192	2"/4" Wall Plate
	711262	2"/4" Wall Plate
	188481	2"/4" Retrofit W
$\bigcirc \bigcirc$	188485	2"/4" Retrofit W
	188486	2"/4" Retrofit W
	710202NPP	2"/4" Condens
	710215NPP	2"/4" Condens

Rinnai. Learn more at rinnai.us

#### escription

densing Horizontal Termination Kit (PPtl)

densing Horizontal Termination Kit (PPtl)

sing Horizontal Termination (2 wallplates) (PPtl)

sing Roof Discharge, 20" Above Roof (PPtl)

densing Vent Pipe Extension (PPtl)

ondensing Vent Pipe Extension (PPtl)

Idensing Vent Pipe Extension (PPtl)

sing Roof Terminal Extension Kit

sing 45 Deg Elbow (Qty: 2) (PPtl)

sing 90 Deg Elbow (PPtl)

using 90 Deg Starter Elbow 3"/5" to 2"/4" (PPtl)

nsing Starter Straight/ Vertical 3"/5" to 2"/4" (PPtl)

(1 piece per box)

niversal - Plastic

mp - Metal

oport Bracket-Metal

te White

e Black

te Gray

Wall Plate White (for 3/5 opening)

Wall Plate Black (for 3/5 opening)

Wall Plate Gray (for 3/5 opening)

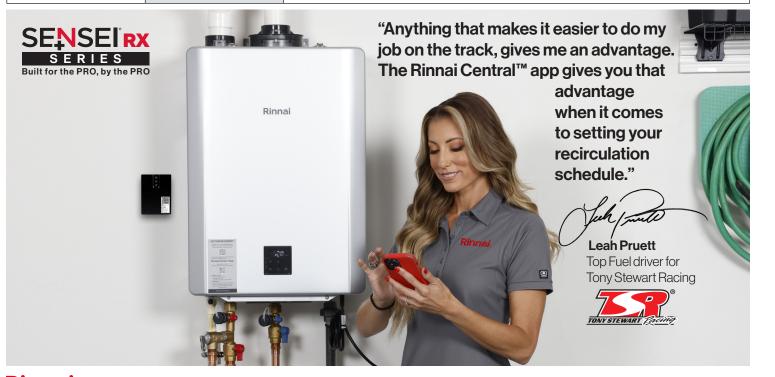
sing 90 Degree Diverter Nose

sing 45 Degree Diverter Nose

# Venting Components for SENSEI®RX

3"/5" Condensing Concentric Vent System

	Part Number	Product Description
	223174PP	8.7", 3"/5" Condensing Horizontal Termination Kit
	223176PP	12", 3"/5" Condensing Horizontal Termination Kit
	223177PP	21", 3"/5" Condensing Horizontal Termination Kit
	223186PP	19", 3"/5" Condensing Horizontal Termination Diverter Nose Kit
	224047PP	3"/5" Condensing Raised Horizontal Terminal Kit ("Snorkel")
	184162PP	3"/5" Condensing Roof Discharge Termination Kit, 20" Above Roof
	185344PP	3"/5" Condensing Roof Termination Extension Kit
ŧ	185346PP	3"/5" Condensing Termination Extension
	224087PP	10", 3"/5" Condensing Vent Pipe Extension
0	224079PP	19.5", 3"/5" Condensing Vent Pipe Extension
	224080PP	39", 3"/5" Condensing Vent Pipe Extension
O	224077PP	3"/5" Condensing 45 Deg Elbow (Qty:2)
0	224078PP	3"/5" Condensing 90 Deg Elbow



Roof Flashing	Part Number	Product Description		
	189958	Universal Shingle Roof Flashing 1/2 to 16/12 pitch		
	189950	Shingle Roof Flashing, 1/12 to 6/12 pitch		
	189951	Shingle Roof Flashing, 6/12 to 12/12 pitch		
-	189952	Shingle Roof Flashing, 8/12 to 16/12 pitch		
	50171949	Tile/Shingle Roof Flashing, 1/12 to 6/12		
	50171954	Tile/Shingle Flashing, 8/12 to 16/12		
	50171961	Tile/Shingle Flashing, 6/12 to 12/12		
	242141	Flashing for Metal Roof		
	146141	Roof Flashing Assembly-Flat Roof		
Other Accessories	Part Number	Product Description		
	224045	3 in. / 5 in. Thimble (1 piece per box)		
	710342	3 in. / 5 in. Rubber Wall Plate White		
	710602	3 in. / 5 in. Rubber Wall Plate Black		
	711390	3 in. / 5 in. Rubber Wall Plate Gray		
224049		3 in. / 5 in. Vent Support Bracket		
-	102000012	3 in. / 5 in. Horizontal Flashing Panel		
0	169043	3"/5" Pipe Clamp - Metal		
40	169044	Pipe Clamp Universal-Plastic		
	224042	Universal Bug Guard		
	IPEX Conce	ntric termination for 2" and 3" PVC Venting		
<ul> <li>Image: A set of the set of the</li></ul>	196005PVC	IPEX 2" Concentric Condensing Vent Termination 2x16		
	196105PVC	IPEX 2" Concentric Condensing Vent Termination 2x28		
	196125PVC	IPEX 2" Concentric Condensing Vent Termination 2x40		
	196984PVC	IPEX 2" Condensing Low Profile Vent Termination		
	196116PVC	IPEX 3" Concentric Condensing Vent Termination		
· .	196985PVC	IPEX 3" Condensing Low Profile Vent Termination		
	224008PPS	IPEX 2" to 3" PP Condensing Increaser/ adaptor		
	108000105	<b>8000105</b> 3" Mesh Metal, SS screen for PVC intake		

### Venting Components for SENSEI®RX

**Proudly assembling Tankless Water Heaters at our** state-of-the-art factory located in **Griffin, Georgia, USA** 

Rinnai established its US operations in 1974 and introduced Tankless Water Heating to the North American Market in 1999.

In 2018 Rinnai assembled its first tankless water heater in the United States in Griffin, Georgia. Our state-of-the-art facility was completed in 2021 with assembly of the new RE• SERIES<sup>™</sup> Non-Condensing Tankless Water Heaters beginning in 2022.

Rinnai continues to make significant investments in expanding its operations and product portfolio, focusing on its brand promise of Creating a healthier way of living\*



Rinnai America in Griffin, Georgia, USA



**Over 100 Years** of Smart Comfort

Through many years of innovation, including decades of commercial water heating experience. Rinnai has enhanced the way businesses operate, while creating a healthier way of living for their customers.

With headquarters in Japan and a network of 20 subsidiaries and 86 sales offices in 13 countries. this commitment has made us the number one selling brand of tankless water heater systems.

Dedicated to a smarter kind of comfort, our value-added products continue to stav in step with the demands of a changing world.



Water Heating Solutions



**Home Heating Solutions** 



**Commercial Water Heating Solutions** 

#### Every. Detail. Matters.<sup>™</sup>

You don't become a market leader without thinking through every single detail. Then overthinking it. Then rethinking it. Every small detail matters. A lot. From flexible venting to customizable solutions and maximum ROI, we've thought through all the possible barriers and potential problems before they exist. Simply put, we're not just in the business of tankless water heaters. We're in the business of solving problems. That means we won't relax. Ever. We just can't. We'll keep rethinking every single tiny detail, innovating, and improving our products, services, and programs.

> Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors, EnergySaver® Direct Vent Wall Furnaces and Hydronic Air Handlers.

#### rinnai.us | rinnai.ca

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